

## CLAIMS.

The present invention, refers to:

- 5 1. A method that employs one magnetic field (23) figure 4a, 4b in the presence of the magnetic field of the Earth, and one inductor which is comprised of one, two or few twisted (21a), figure 3b or parallel (21), figure 3a conductors that is supplied by an electronic switch arrangement (14) figure 2a with possible use of semiconductors and/or other types of electronic arrangements, or any other equivalent switch i.e. plasma switch (14) figure 2b, with the least possible self induction:  $< 10 \mu\text{H}$ , a great and sudden current:  $> 10000 \text{ A}$ , small total duration:  $< 0.1 \text{ ms}$ , and causes any of the following :
  - 10 I. Magnetic Nuclear Multiple - Resonance and Nuclear (25) figure 4b activation of exhibits' atoms (24) figure 4a, 4b, and (26), (27), (28) figure 5 with possibility of initiation of Nuclear reactions.
  - 15 II. Electronic Paramagnetic Multiple - Resonance and Activation of Electrons (25) figure 4b of exhibits' atoms (24) figure 4a, 4b and (26), (27), (28) figure 5 with the possibility of initiation of Chemical changes.
  - III. Every possible combination of the above, where the absorption of energy by matter is presented as a general characteristic, with consequential changes from their former state.
  - 20 IV. Oscillation or locomotion of atoms, nuclei (25) figure 4b, electrons (25) figure 4b, ions, electric charges with the accompanying creation of electrical currents or not.
2. A preferred embodiment for the above described method, consisting of an inductor which is comprised of one, two or few twisted (21a), figure 3b or parallel (21) figure 3a conductors.
  - 25 3. An Appliance characterized by a suitable power supply (2), (4) figure 1, that supplies a capacitor - reservoir (7) figure 2a, 2b, faculty of attribution of an electrical power, which is connected to an electronic switch arrangement (14) figure 2a, or to any other equivalent switch e.g. a plasma switch (14) figure 2b, which can be suitably activated or self-activated and into which electrical conductivity is caused and this electrical conductivity produces very powerful and characteristic (of the electronic switch arrangement (14) figure 2a) or any other equivalent switch i.e. plasma switch (14) figure 2b), electrical oscillations that lead to an inductor which is comprised of one, two or few twisted (21a) figure 3b or parallel (21) figure 3a conductors, and exposes with damped wave alternating magnetic field (23) figure 4a, 4b oscillations, materials (24) figure 4a, 4b, biological matter, human or animal bodies with any of the following resulting products:
    - 35 Magnetic Nuclear Multiple - Resonance, (26), (27), (28), figure 5, Electronic Paramagnetic Multiple - Resonance, (26), (27), (28) figure 5 oscillation or locomotion of atoms, nuclei (25) figure 4b, electrons (25) figure 4b, ions, electric charges, etc, that are reported in claim 1.
    - 40 4. A Variation of the said method and apparatus which uses a second induction field contributing together with the ambient magnetic field of the Earth or substituting it in part or in all, and which apparatus produces the characteristic field of claim 1 by an electronic switch arrangement (14) figure 2a or of any other equivalent switch i.e. plasma switch (14) figure 2b, that use the characteristic oscillations of electronic switch arrangement (14) figure 2a or of any other equivalent switch i.e. plasma switch (14) figure 2b for the production of a pulsating, damped wave magnetic field (23) figure 4a, 4b with the products reported in claims 1 and 3, and generally
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industrial or non-industrial products, based on the NMR and EPR Multiple – Resonance (26), (27), (28), figure 5.